AIM: 1-4B I will be able to determine the place value of decimal numbers!

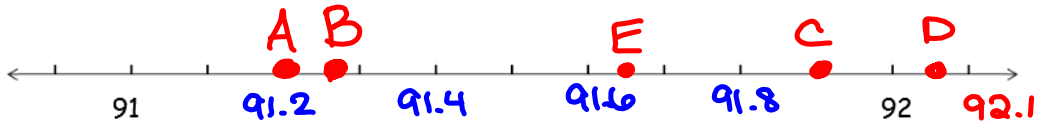
Name _____ Date _____

Mrs. Ashley Math 6 - Period _____

Warm-up:

1) Plot the following numbers on the number line below.

A) 91.2 B) 91.27 C) 91.9 D) 92.05 E) 91.65



* Each line represents $\frac{1}{10}$

Let's Investigate: Place Value Chart

And

Place Value Chart

Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	AND	Tenths	Hundredths	Thousandths	Ten – thousandths	Hundred – thousandths	Millionths
			1	0,	2	5	4	.	7	2	1	5		
								.						

Standard Form: 10,254.7215

Expanded Form: 10,000 + 200 + 50 + 4 + 0.7 + 0.02 + 0.001 + 0.0005

Written Form: Ten thousand two hundred fifty-four AND seven thousand two hundred fifteen ten-thousandths

Vocabulary

Place Value – A digit's position in a number and its resulting value.

Standard Form – The numerical version of a number where each number has a place value.

Example: two hundred forty one written in standard form is 241

Expanded Form – When we expand a number to show the value of each digit.

Example: 200 + 10 + 5 + 0.30 + 0.07 written in standard form is 215.37

In our decimal number system, the value of a digit depends on its place, or position, in the number. Each place has a value of ten times the place to its right.

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KEY CONCEPT 1: **Write the decimal name in STANDARD FORM.**

decimal ↓

Seven and forty-five thousandths 7.045

KEY CONCEPT 2: **Write the name for the decimal number, in WORDS.**

523.24 Five hundred twenty-three AND twenty-four hundredths

position #

KEY CONCEPT 3: **Name the PLACE and VALUE of the underlined digits.**

1,034,000 *Place:* Ten thousands *Value:* 30,000

246.051 *Place:* Hundredths *Value:* 0.05

Name: _____ Date _____

STATION 1

Write the decimal names below in standard form.

EXAMPLE: Five hundred thousand two hundred fifty-two is 500,252

1. Seven hundred twenty-five _____
2. Three thousand one hundred thirty-two _____
3. Three and five hundred thirty-two thousandths _____
4. Nine hundred fifty-seven and five tenths _____
5. Two thousand three hundred forty-two and sixty-seven hundredths _____
6. Six hundred fifty-two and four hundredths _____
7. One thousand two hundred thirty-five and seven tenths _____
8. One million twenty-five thousand four hundred and two hundred-thousandths _____
9. Two hundred five thousand four hundred six _____
10. Seventy-one and seven hundredths _____

Name: _____ Date _____

STATION 2

Write the name for each decimal number below in words.

EXAMPLE: 500,252 is Five hundred thousand two hundred fifty-two

1) 4,263.917 _____

_____

2) 10,003.2 _____

_____

3) 4.06 _____

_____

4) 545.0854 _____

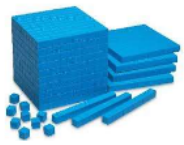
_____

5) 1,524,250 _____

_____

Name: _____ Date: _____

STATION 3



Name the place AND value of each underlined digit.

EXAMPLE: 430.25 → **Place:** Hundredths **Value:** 0.05

	PLACE	VALUE
1) 1,450,245		
2) 98.045		
3) 102,540.2		
4) 3.78		
5) 345.45		
6) 1,290.240		
7) 24.0804		
8) 103.94		
9) 2,450.45		
10) 3,500,302		
11) 35.900034		